

What is claimed is:

1. A solid pigment preparation comprising

5 (A) at least one pigment in a higher concentration than that which corresponds to the subsequent application and

(B) at least one carrier material selected from the group consisting of oligomers and polymers which have a glass transition temperature
10 > 30°C and a melting point or melting range below their decomposition temperature,

preparable by dispersing the pigment or pigments (A) or the pigment or pigments (A) and at least one constituent (D) in the melt of the carrier material or carrier materials (B) or in the melt of the carrier material or
15 carrier materials (B) and at least one constituent (D) with a power input of from 0.1 to 1.0 kW/kg for from 0.5 to 5 hours in a discontinuously operating dispersing apparatus, and then discharging the mixture (A/B) or (A/B/D) from the dispersing apparatus and allowing it to cool and solidify.

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2. The pigment preparation as claimed in claim 1, which is in powder form.

3. The pigment preparation as claimed in claim 1, which is in the form of a dispersion in at least one organic solvent (C).

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4. The pigment preparation as claimed in any of claims 1 to 3, wherein the pigments (A) are selected from the group consisting of organic and inorganic, transparent and opaque, color and/or effect, fluorescent,

phosphorescent, electrically conductive, and magnetically shielding pigments and transparent and opaque metal powders and also organic and inorganic, transparent and opaque fillers and nanoparticles.

- 5 5. The pigment preparation as claimed in any of claims 1 to 4, wherein the oligomers and polymers (B) have a glass transition temperature of between 30 and 200°C.
- 10 6. The pigment preparation as claimed in any of claims 1 to 5, wherein the oligomers and polymers (B) do not decompose within a temperature range of at least 100°C above their glass transition temperature.
- 15 7. The pigment preparation as claimed in any of claims 1, 2 or 4 to 6, containing or comprising, based on the pigment preparation, from 1 to 85% by weight of at least one pigment (A) and from 15 to 99% by weight of at least one carrier material (B).
- 20 8. The pigment preparation as claimed in any of claims 3 to 6, comprising, based on the solids of the dispersion, from 1 to 85% by weight of at least one pigment (A) and from 15 to 99% by weight of at least one carrier material (B).
- 25 9. The pigment preparation as claimed in any of claims 3 to 6 and 8, having a solids content of from 20 to 80% by weight.
10. The pigment preparation as claimed in any of claims 1 to 9, comprising at least one further constituent (D) selected from the group consisting of additives and dyes.

11. The pigment preparation as claimed in claim 10, wherein the additives are selected from the group consisting of crosslinking agents, UV absorbers, light stabilizers, free-radical scavengers, devolatilizers, slip additives, polymerization inhibitors, crosslinking catalysts, thermolabile free-radical
5 initiators, photoinitiators, thermally curable reactive diluents, reactive diluents curable with actinic radiation, adhesion promoters, leveling agents, film-forming auxiliaries, flame retardants, corrosion inhibitors, free-flow aids, waxes, and flatting agents.
- 10 12. The pigment preparation as claimed in any of claims 1 to 11, wherein the dispersing apparatus is a kneading apparatus.
13. A process for producing a pigment preparation as claimed in any of claims 1 to 12 by mixing together its constituents (A) and (B) and also,
15 where appropriate, (C) and/or (D), which comprises
- (1) in a first step in dispersing apparatus
- 20 - dispersing the pigment or pigments (A) or
- the pigment or pigments (A) and at least one constituent (D)
- in the melt
- 25 - of the carrier material or carrier materials (B) or
- of the carrier material or carrier materials (B) and at least one constituent (D)

with a power input of from 0.1 to 1 kW/kg for from 0.5 to 5 hours,
and then

- 5 (2) in a second step discharging the resulting mixture (A/B) or (A/B/D)
from the dispersing apparatus and allowing it to cool and solidify.

14. The process as claimed in claim 13, wherein

- 10 (3) the solidified mixture (A/B) or (A/B/D) is pulverized.

15. The process as claimed in claim 13 or 14, wherein

- (4) the solidified mixture (A/B) or (A/B/D) is dispersed in at least one
organic solvent (C).

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16. The use of a pigment preparation as claimed in any of claims 1 to 12 or of a
pigment preparation produced by the process as claimed in any of
claims 13 to 15 for producing or tinting pigmented powders and liquid
coating materials based on organic solvents (conventional coating
20 materials) and for producing mixer systems.

17. The use as claimed in claim 16, wherein the mixer systems are used for
producing and/or for subsequently tinting powders and conventional
coating materials.

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18. The use as claimed in claim 16 or 17, wherein the mixer systems comprise

- (I) at least two adjustment modules each comprising a dispersion as set forth in any of claims 1 to 12 or at least one dispersion produced by the process of claim 15, and
- 5 (II) at least one solids module comprising pigmented or unpigmented, dimensionally stable powders.
19. The use as claimed in any of claims 16 to 18, wherein the oligomers and polymers (B) are identical with the binders present in the powders.
- 10 20. The use as claimed in any of claims 16 to 19, wherein production and/or subsequent tinting of the powders is undertaken on the basis of a paint mixing formula system.
- 15 21. The use as claimed in any of claims 16 to 20, wherein the powders are polymer pellets or powder coating materials.
22. The use as claimed in any of claims 16 to 21, wherein
- 20 a) the pigmented powder coating materials and conventional coating materials are used for
- the original finishing of bodies of means of transport, including aircraft, rail vehicles, watercraft, muscle-powdered vehicles and
 - 25 motor vehicles, both for interior and exterior applications, and also components of such vehicles,
 - the painting of the inside and outside of buildings,
 - the painting of doors, windows, furniture, and hollow glassware,
 - the coating of pipelines,

- industrial coating, including coil coating, container coating, and the impregnation and/or coating of mechanical, optical, and electrical components;
- the coating of white goods, including household appliances, boilers, and radiators; and
- the coating of flanges, valves, wall-fitted wardrobes, bed frames, insulation boxes, fence posts, garden furniture, traffic barriers, road signs, shopping baskets, inserts for dishwashers, brake cylinders, laboratory equipment, and chemical plant, and

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- b) the pigmented polymer pellets are used for producing moldings and films.